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PATENT ABSTRACTS OF JAPAN(21) Application number: **05083391**(51) Intl. Cl.: **A61K 31/70**(22) Application date: **09.04.93**

(30) Priority:	(71) Applicant: SANEYOSHI MINERO SHUDO KOICHI
(43) Date of application publication: 21.10.94	(72) Inventor: SANEYOSHI MINERO SHUDO KOICHI
(84) Designated contracting states:	(74) Representative:

**(54) REVERSE
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(57) Abstract:

PURPOSE: To obtain a reverse transcriptase inhibitor having a strong inhibitory effect on a reverse transcriptase produced by HIV and useful for improvement and prevention of AIDS and for suppression or retardation of the crisis after infection with AIDS virus.

CONSTITUTION: There is provided a reverse transcriptase inhibitor containing 2'-deoxy-L-ribonucleotide-5'-triphosphate, preferably 2'-deoxy-L-thymidine-5'-triphosphate as the active component and having a strong inhibitory effect on a reverse transcriptase produced by retrovirus. This compound can be produced by converting an L-nucleotide (an optical antipode of a natural type nucleotide) into its monophosphate, e.g. in the presence of phosphorus oxychloride and subsequently synthesizing its

corresponding 5'-triphosphate compound therefrom, e.g. according to phosphorimidazolidate method. This compound is also useful as a reagent for studies in the fields of biochemistry, genetic engineering etc.

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